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A LIST OF ALGAE FROM SELECTED AREAS IN MASSACHUSETTS¹

EDGAR E. WEBBER

For the past thirty years, work on the flora of Worcester County has been centered upon vascular plants. Numerous references may be found elsewhere. Recently, attention has been directed to other forms of plant life (1, 3). However, little is known concerning the algae of the county. In 1899 Stone (6) included a list of algae found in Lake Quinsigamond as part of a floristic study of that area. Auyang (2) has recently completed a survey of the algae in Lake Quinsigamond. These two works appear to be the only ones to date dealing with the algal flora of the county, but they both are restricted to only one location.

The writer (7) has just completed an ecological study of the algal populations in eleven selected stations in Worcester

¹The taxonomic list, slightly modified, from a thesis, "The Ecology of Some Attached Algae in Worcester County, Massachusetts," presented to the Faculty of the Graduate School of Cornell University in partial fulfillment of the requirements for the degree of Master of Science.

County. No attempt will be made here at ecologically characterizing these stations; a listing of them will suffice.

STATION	NAME AND LOCATION
1	Eames Pond, Oxford, Mass.
2	Eddy Pond, Auburn, Mass.
3	The Cataracts, Worcester, Mass.
4	Silver Spring Brook, Paxton, Mass.
5	The Quag, Sterling, Mass.
6	Chaffin Pond, Holden, Mass.
7	Brook near Reservoir no. 4., Paxton, Mass.
8	Stream near Reservoir no. 2., Leicester, Mass.
9	Indian Lake, Worcester, Mass.
10	A tire depression, temporary habitat, near station 9.
11	Sargent Pond, Leicester, Mass.

Following is a list of algal species collected in Worcester County during the course of the ecological study mentioned above (7). The collecting station appears in parentheses after each species. The taxonomic scheme is that used by Prescott (4); the desmids and diatoms, since they are not included in Prescott (4), are classified following Smith (5).

CHLOROPHYTA

CHLAMYDOMONADACEAE: *Chlamydomonas* sp. (6).

VOLVOACEAE: *Pandorina morum* (Muell.) Bory (2-b, 5-a, 5-b); *Gonium sociale* (Duj.) Warming (10).

HAEMATOCOCCACEAE: *Haematococcus* sp. (5; isolated pockets along shore).

ULOTRICHACEAE: *Ulothrix subconstricta* G. S. West (11-b); *U. tenerima* Kuetz. (3, 7-a); *U. variabilis* Kuetz. (6, 7-a, 11-b); *U. sp.* (? *cylindricum*) Prescott (7-a); *Binuclearia tatrana* Wittr. (11-a).

MICROSPORACEAE: *Microspora tumidula* Hazen (7-a); *M. sp.* (4).

CYLINDROCAPSACEAE: *Cylindrocapsa geminella* var. *minor* Hansg. (5-a).

CHAETOPHORACEAE: *Stigeoglonium aestivale* (Hazen) Collins (1-b); *S. lubricum* (Dillw.) Kuetz. (2-a, 7-b); *S. tenue* (Ag.) Kuetz. (8-c); *S. sp.* (? *glomeratum* (Hazen) Collins or *subsecundum* Kuetz.) (7-b).

COLEOCHAETACEAE: *Coleochaete scutata* Breb. (5-a); *Chaetosphaeridium globosum* Klebahn (6); *Draparnaldia glomerata* (Vauch.) C.A. Ag. (8-a); *Aphanochaete repens* A. Br. (11-a).

CLADOPHORACEAE: *Rhizoclonium hieroglyphicum* (Ag.) Kuetz. (2-a).

OEDOGONIACEAE: *Bulbochaete scrobiculata* Tiff.) Tiffany (11-a); *B. sp.* (? *elator*) Prings. (11-a); *B. sp.* (? *mirabilis*) Wittr. (11-a); *B. sp.* (? *setigra* (Roth) C.A. Ag. or *insignis* Prings.) (11-a); *Oedogo-*

nium boscii (LeCl.) Wittr. (3); *O. gracilius* (Wittr.) Tiff. (6); *O. reinschii* Roy (6); *O. subsexangulare* Tiff. (11-a); *O. sp.* (? *hystricinum* Trans. & Tiff.) (11-b); *O. sp.* (1-a, 1-b, 2-a, 2-b, 5-b).

CHLOROCOCCACEAE: *Golenkinia paucipina* West & West (2-b).

CHARIACEAE: *Characium ambiguum* Herm. (1-a, 2-a, 7-a, 7-b); *C. naegelii* A. Br. (7-b, 8-b); *C. stipitatum* (Bachm.) Wille (11-a); *C. sp.* (? *pringsheimii*) A. Br. (6).

HYDRODICTYACEAE: *Pediastrum araneosum* var. *rugulosum* (G. S. West) G. M. Smith (6); *P. biradiatum* Meyen (2-b); *P. boryanum* (Turp.) Meneg. (1-a, 2-a, 2-b, 5-a, 6, 11-a); *P. boryanum* var. *longicorne* Raciborski (5-a); *P. boryanum* var. *undulatum* Wille (1-a); *P. duplex* Meyen (1-a, 6); *P. duplex* var. *clathratum* (A. Br.) Lag. (1-a, 2-a); *P. duplex* var. *cohaerens* Bohl. (6); *P. duplex* var. *gracillimum* West & West (11-b); *P. obtusum* Lucks (6, 11-b); *P. sculptatum* G. M. Smith (5-a); *P. tetras* (Ehr.) Ralfs (1-a, 2-a, 2-b, 5-a, 5-b, 6, 11-a); *P. tetras* var. *tetraodon* (Corda) Rab. (1-c, 5-a, 5-b, 6, 11-a, 11-b); *Sorastrum americanum* (Bohl.) Schmidle (6); *S. americanum* var. *undulatum* G. M. Smith (6, 11-b); *S. spinulosum* Naeg. (6).

COELASTRACEAE: *Coelastrum cambricum* Arch. (2-a, 11-b); *C. microporum* Naeg. (2-a, 5-a, 6, 8-a, 11-a, 11-b); *C. sphaericum* Naeg. (1-c, 2-a, 2-b).

OOCYSTACEAE: *Dictyosphaerium pulchellum* Wood (2-a); *Trochiscia obtusa* (Reins.) Hansg. (6); *T. reticularis* (Reins.) Hansg. (6, 8-b); *T. sp.* (1-b, 4, 5-b); *Eremosphaeria viridis* DBy. (6); *Oocystis crassa* Wittr. (6); *O. elliptica* W. West (6); *O. solitaria* Wittr. (6); *Nephrocystium agardhianum* Naeg. (5-a, 6, 11-b); *N. obesum* West & West (6); *Dimorphococcus lunatus* A. Br. (6); *Ankistrodesmus convolutus* Corda (2-a); *A. falcatus* (Corda) Ralfs (1-c, 6, 11-a); *A. falcatus* var. *acicularis* (A. Br.) G. S. West (11-a); *A. falcatus* var. *mirabilis* (West & West); G. S. West (2-a); *A. spiralis* (Turner) Lem. (6, 8-a); *Selenastrum minutum* (Naeg.) Collins (5-a, 11-a); *S. sp.* (6); *Kirchneriella lunaris* (Kirch.) Moebius (6); *K. obesa* var. *major* (Barnard) G. M. Smith (2-a, 6); *K. subsolitaria* Schmidle (2-a, 6); *Quadrigula lacustris* (Chod.) G. M. Smith (6, 11-b); *Tetraedron caudatum* (Corda) Hansg. (6, 11-b); *T. minimum* (A. Br.) Hansg. (2-a, 2-b, 11-a, 11-b); *T. obesum* (West & West) Wille (6); *T. trigonum* (Naeg.) Hansg. (6); *T. tumidulum* (Reins.) Hansg. (11-b).

SCENEDESMACEAE: *Scenedesmus abundans* (Kirch.) Chod. (2-a, 2-b); *S. acuminatus* (Lag.) Chod. (8-a); *S. acutiformis* Schroeder (1-a, 2-a, 2-b, 6, 11-b); *S. arcuatus* Lem. (2-a, 6); *S. arcuatus* var. *capitatus* G. M. Smith (2-b); *S. arcuatus* var. *platydisca* G. M. Smith (2-a, 6, 11-a, 11-b); *S. armatus* (Chod.) G. M. Smith (6); *S. bijuga* (Turp.) Lag. (1-a, 2-a, 2-b, 5-a, 5-b, 6, 8-a, 8-b, 11-a); *S. bijuga* var. *alternans* (Reins.) Hansg. (6); *S. brasiliensis* Bohlin (1-c, 2-b, 8-b, 11-b); *S. carinatus* (Lom.) Chod. (1-a); *S. caudatus* Corda (1-c, 2-a); *S. caudatus* var. *typicus* Kirch. (1-c); *S. denticulatus* Lag. (2-a, 2-b, 6, 8-a);

S. dimorphus (Turp.) Kuetz. (1-a, 2-a, 2-b, 6, 8-b); *S. incrassatulus* Bohlin (1-a); *S. longus* Meyen (5-b); *S. obliquus* (Turp.) Kuetz. (2-a, 2-b, 5-a, 6, 8-a); *S. opoliensis* P. Richter (2-b); *S. quadricaudata* (Turp.) Breb. (1-a, 1-c, 2-a, 2-b, 5-a, 5-b, 6, 8-a, 11-b); *S. quadricaudata* var. *parvus* G. M. Smith (1-a); *S. quadricaudata* var. *quadrispina* (Chod.) G. M. Smith (5-b); *S. quadricaudata* var. *westii* G. M. Smith (2-a, 5-b); *Actinastrum* sp. (? *hantzchii*) Lag. (2-a); *Tetrademus wisconsinense* G. M. Smith (6).

ZYGNEMATACEAE: *Mougeotia scalaris* Hass. (8-b); *M.* sp. (1-a, 1-b, 1-c, 2-b, 5-a, 6, 7-a, 7-b, 8-a, 8-b, 8-c, 11-b); *Spirogyra hyalina* Cleve (6); *S. rivularis* Rab. (2-b); *S.* sp. (1-a, 1-b, 2-a, 2-b, 2-c, 5-a, 5-b, 6, 7-b, 8-b, 11-b); *Zygnema* sp. (1-a, 1-b, 5-a, 5-b, 6, 8-a, 8-b, 11-b); *Zygnemopsis desmidioides* (West & West) Transeau (5-a).

MESOTENIACEAE: *Gonatozygon aculeatum* Hastings (6); *G. brebissonii* Meneg. (11-a); *Cylindrocystis americana* West (8-c); *C. brebissonii* Meneg. (11-a); *Netrium digitus* (Ehr.) Itz. & Rothe (1-c, 5-a, 5-b, 6, 8-c); *N. digitus* var. *constrictum* West & West (6); *N. naegelii* (Breb.) West & West (6, 8-b); *N.* sp. (? *oblongum*) (DBy) Luet. (8-b); *Spirotaenia condensata* Breb. (1-a).

DESMIDIACEAE: *Closterium abruptum* West (6); *C. acerosum* (Schrank) Ehr. (6); *C. acuminatum* Ralfs (1-c, 3, 4); *C. cornu* Ehr. (11-a); *C. ehrenbergii* Meneg. (5-a); *C. jenneri* Ralfs (1-c, 2-a, 2-b, 4); *C. juncidum* Ralfs (6); *C. lanceolatum* Kuetz. (6); *C. leibleinii* Kuetz. (1-a, 5-b, 6, 7-a); *C. libellula* Focke (1-a, 5-b); *C. libellula* var. *intermedium* Roy & Bis. (6); *C. moniliferum* Ehr. (4, 6, 8-b, 8-c); *C. parvulum* Naeg. (1-c, 3, 5-a, 5-b, 6, 8-b, 8-c, 11-a); *C. regulare* Breb. (6); *C. rostratum* Ehr. (1-a, 4, 5-a); *C. setaceum* Ehr. (6, 11-b); *C. strigosum* Ehr. (6); *C. subtruncatum* West & West (6); *C. venus* Kuetz. (1-a, 3, 6, 8-b); *Penium navicula* Breb. (6); *P.* sp. (? *closteroides*) Ralfs (1-b); *P.* sp. (6); *Pleurotaenium coronatum* (Breb.) Rab. (6); *P. maximum* (Reins.) Lund (11-a); *P. trabecula* (Ehr.) Naeg. (5-a, 5-b, 6); *Triploceras gracile* Bail. (6); *Euastrum abruptum* Nord. (1-c, 6); *E. abruptum* forma *minus* West & West (11-a, 11-b); *E. bidentatum* Naeg. (6); *E. binale* (Turp.) Ehr. (6); *E. binale* forma *minor* G. S. West (11-a); *E. elegans* Kuetz. (3, 5-a, 11-a); *E. evolutum* West & West (6); *E. evolutum* var. *integrius* West & West (6); *E. gemmatum* Breb. (6); *E. insulare* (Wittr.) Roy (3, 6, 11-b); *E. pictum* Borg. (1-a); *E. pulchellum* Breb. (6, 11-a, 11-b); *E. sinuosum* var. *reductum* West & West (11-a, 11-b); *Cosmarium amoenum* Breb. (5-b, 6); *C. amoenum* var. *tumidum* Wolle (6); *C. bioculatum* Breb. (11-a, 11-b); *C. boeckii* Wille (3, 6, 11-a, 11-b); *C. botrytis* Meneg. (2-a); *C. broomei* Thwaites (1-a); *C. circulare* Reins. (1-c, 6, 8-c); *C. coelatum* Ralfs (3); *C. connatum* Breb. (6); *C. contractum* Kirch. (2-a, 6); *C. excavatum* Nord. (6); *C. galeritum* Nord. (2-a); *G. globosum* Bulnh. (5-a, 6); *C. impressulum* Elfv. (6); *C. intermedium* Delp. (5-a, 5-b); *C. margaritatum* (Lund) Roy & Bis. (5-a, 6); *C. moniliforme* (Turp.)

Ralfs (1-a); *C. meneghinii* Breb. (5-a, 6); *C. naeglianum* Breb. (6); *C. nitidulum* DeNot. (5-a); *C. orbiculare* Ralfs (5-b, 6); *C. ornatum* Ralfs (2-a); *C. ornatum* var. *protractum* Wolle (1-a); *C. pachydermum* Lund (6); *C. portianum* Arch. (1-a, 6, 11-b); *C. punctulatum* Breb. (6); *C. pyramidatum* Breb. (6); *C. quadrum* Lund (6); *C. regnelii* Wille (11-b); *C. regnesii* Reins. (6, 11-b); *C. renniforme* (Ralfs) Arch. (11-a); *C. repandum* forma *minor* West & West (6); *C. speciosum* Lund (2-a); *C. sublobatum* Arch. (6); *C. tumidum* Lund (6); *C. undulatum* Corda (1-a, 1-c, 2-a, 3, 5-a, 5-b, 6, 8-c, 11-a, 11-b); *C. undulatum* var. *minutum* Wittr. (5-a); *C. undulatum* (? var. *wollei*) West (5-b, 11-a); *C. viride* (Corda) Josh. (5-a, 6); *C. sp.* (? *gonatum*) Breb. (2-a); *C. sp.* (? *pseudoconnatum*) Nord. (8-c); *Micrasterias americana* (Ehr.) Ralfs (1-c); *M. laticeps* Nord. (6); *M. mahabuleswarensis* Hobson (5-a); *M. pinnatifida* (Kuetz.) Ralfs (6); *M. radiata* Hass. (5-b, 6); *M. sol* (Ehr.) Kuetz. (6); *M. truncata* (Corda) Breb. (5-a, 5-b); *Xanthidium antilopaeum* (Breb.) Kuetz. (1-b, 6); *X. antilopaeum* var. *minneapolisense* Wolle (6); *X. antilopaeum* var. *polymazum* Nord. (5-a, 6); *Staurostrum alternans* Breb. (3); *S. arctison* var. *glabrum* West & West (5-b); *S. aspinosum* Wolle (6); *S. bienianum* var. *ellipticum* Wolle (5-b); *S. brebissonii* Arch. (6); *S. brevispinum* Breb. (5-a, 11-a); *S. crenulatum* (Naeg.) Delp. (6); *S. dejectum* Breb. (5-a); *S. dickiei* Ralfs (5-b); *S. dilatatum* Ehr. (2-a, 5-a, 5-b); *S. gracile* Ralfs (2-a, 5-a, 5-b, 6); *S. granulosum* (Ehr.) Ralfs (11-b); *S. leptocladum* Nord. (1-a, 5-a, 5-b, 6, 11-b); *S. leptocladum* var. *divergens* Nord. (1-c, 6); *S. margaritaceum* (Ehr.) Meneg. (5-a); *S. megacanthum* Lund (6, 11-a); *S. odontatum* Wolle (6); *S. paradoxum* Meyen (11-a); *S. pilosum* Arch. (3); *S. tetracerum* Ralfs (6); *Arthrodesmus convergens* Ehr. (6); *A. incus* (Breb.) Hass. (1-c, 11-a); *A. incus* var. *extensus* Anderson (11-b); *A. octocornis* Ehr. (11-a, 11-b); *A. triangularis* Lag. (11-a, 11-b); *Spondylosium papillosum* West & West (11-a, 11-b); *S. planum* (Wolle) West & West (6, 11-a, 11-b); *S. pulchellum* Arch. (11-a, 11-b); *S. pulchrum* (Bail.) Arch. (6); *Hyalotheca dissiliens* (Smith) Breb. (5-a, 6, 8-c); *H. undulata* Nord. (6); *Onychonema filiforme* (Erh.) Roy & Bis. (6); *Sphaerososma excavatum* Ralfs (6); *S. filiforme* Rab. (6); *S. granulatum* Roy & Bis. (6, 11-a); *Desmidium aptogonum* Breb. (6); *D. baileyi* (Ralfs) Wolle (6); *D. grevelii* (Kuetz.) DBy. (6); *D. longatum* Wolle (6); *D. swartzii* Ag. (6); *Gymnozyga moniliformis* Ehr. (6); *G. moniliformis* var. *gracilescens* Nord. (6).

CHRYSOPHYTA

CHLOROTHECIACEAE: *Ophiocytium capitatum* Wolle (11-a, 11-b); *O. parvulum* (Perty) A.Br. (6, 11-a, 11-b); *O. sp.* (1-c, 2-a).

TRIBONEMATACEAE: *Tribonema bombycinum* (C.A. Ag.) Derbes & Solier (6, 7-a, 8-a); *T. minus* (Wolle) Hazen (2-a, 5-a, 7-b, 8-b).

VAUCHERACEAE: *Vaucheria sp.* (1-b, 3, 6, 8-c).

OCHROMONADACEAE: *Dinobryon* sp. (6).

RHIZOCHRYSIDACEAE: *Lagynion* sp. (? *ampullaceum*) (Stokes) Pascher (6).

COSINODISCACEAE: *Melosira sculpta* Kuetz. (8-b, 8-c); *M. varians* C. A. Ag. (2-b); *Stephanodiscus* sp. (8-a).

TABELLARIACEAE: *Tabellaria fenestrata* (Lyngb.) Kuetz. (1-a, 1-c, 2-b, 3, 7-a, 8-a, 11-a); *T. fenestrata* (? var. *asterionelloides*) Grun. (1-c); *T. flocculosa* (Rothe) Kuetz. (1-a, 1-c, 3, 4, 5-a, 7-a, 8-a, 11-a).

MERIDIONACEAE: *Meridion circulare* (Grev.) Ag. (1-c, 2-a, 3, 4, 7-a); *M. intermedium* H. L. Smith (1-c, 3, 7-a).

DIATOMACEAE: *Diatoma anceps* (Ehr.) Kirch. (4).

FRAGILARIACEAE: *Fragilaria* sp. (? *capucina*) Desmaz. (1-a, 1-c, 2-a, 3, 4, 5-a, 7-a, 8-a, 11-a); *Synedra acuta* Ehr. (1-c, 3, 4, 8-a); *S. radians* Kuetz. (2-a, 8-e, 11-a); *S. ulna* (Nitzsch) Erh. (3); *S. ulna* var. *biceps* (Kuetz.) Schoen. (8-a); *S. ulna* var. *danica* (Kuetz.) Grun. (4, 8-a, 8-b, 8-c).

EUNOTIACEAE: *Eunotia robusta* var. *diadema* (Ehr.) Ralfs (11-a); *E. robusta* var. *tetrodon* Ralfs (3).

NAVICULACEAE: *Navicula diaphala* (Ehr.) W. Smith (5-a); *N.* sp. (1-a, 3, 4, 5-a, 7-a, 7-b, 8-b, 8-c, 10); *Stauroneis inflata* Kuetz. (8-c); *S.* sp. (3).

GOMPHONEMATACEAE: *Gomphonema acuminatum* var. *coronatum* (Ehr.) Ralfs (11-a, 11-b); *G. constrictum* Ehr. (2-a, 11-a); *G. dichotomum* Kuetz. (7-b, 8-b); *G. geminatum* (Lyngb.) C.A. Ag. (7-a, 11-a); *G.* sp. (1-a, 1-b, 8-b).

CYMBELLACEAE: *Cymbella* sp. (3, 4, 5-a); *Epithemia* sp. (5-b).

SURIRELLACEAE: *Surirella* sp. (4).

EUGLENOPHYTA

EUGLENACEAE: *Euglena polymorpha* Dangeard (6, 10); *E.* sp. (3, 5-a, 5-b, 6, 10); *Phacus* sp. (3, 5-a); *Trachelomonas hispida* (Perty) Stein (6).

PYRRHOPHYTA

PERIDINIACEAE: *Peridinium cinctum* (Muell.) Ehr. (6).

CYANOPHYTA

CHROOCOCCACEAE: *Microcystis aeruginosa* Kuetz. (2-a, 2-b, 2-c, 9, 11-a); *M. incerta* Lem. (9); *Merismopedia glauca* (Ehr.) Naeg. (5-a, 5-b); *M. tenuissima* Lem. (6); *Aphanothece castagnei* (Breb.) Rab. (6); *Coelosphaerium collinsii* Drouet & Daily (11-a); *Marssoniella elegans* Lem. (6); *Glaucocystis nostochinearum* (Itz.) Rab. (6, 11-a); *G. oocystiformis* Prescott (6).

OSCILLATORIACEAE: *Spirulina laxa* G. M. Smith (6); *S.* sp. (5-a); *Trichodesmium lacustre* Kleb. (3); *Oscillatoria agardhii* Gomont (11-b); *O. amphibia* C.A. Ag. (11-a); *O. articulata* Gardner (1-a, 11-b); *O. curviceps* C.A. Ag. (6); *O. lacustris* (Kleb.) Geitler (3); *O. sancta* (Kuetz.) Gomont (6); *O. subtilissima* Kuetz. (6); *O. tenuis* C.A. Ag. (1-c, 8-a, 8-c, 10); *O.* sp. (? *angusta*) Koppe (8-b); *Phormidium inun-*

datum Kuetz. (1-b, 2-a, 4, 11-b); *P. retzii* (C.A. Ag.) Gomont (4, 8-b, 11-b); *Lyngbya aerugineo-coerulea* (Kuetz.) Gomont (3).

NOSTOCACEAE: *Anabaena affinis* Lem. (2-a, 2-b, 2-c, 5-a); *A. flos-aquae* (Lyngb.) Breb. (11-a); *A. oscillarioides* Bory (8-c); *A. spiroides* Kleb. (9).

SCYTONEMATACEAE: *Hapalosiphon hibernicus* West & West (6); *Stigonema mamillosum* (Lyngb.) C.A. Ag. (11-a).

RIVULARIACEAE: *Gloeotrichia echinulata* (J.E. Smith) P. Richter (6); *Calothrix epiphytica* West & West (5-b).

RHODOPHYTA

CHANTRANSIACEAE: *Audouinella* sp. (4).

BATRACHOSPERMACEAE: *Batrachospermum vagum* (Roth) C.A. Ag. (4). — DEPT. OF BOTANY, CORNELL UNIVERSITY, ITHACA, N. Y.

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FURTHER NOTES ON CHAMAECYPRIS THYOIDES IN NEW HAMPSHIRE

HENRY I. BALDWIN

H. K. Svenson (*Rhodora* 31: 96-98, 1929) describes his three visits to the towns of Bradford, Windsor and Washington, N. H. when he located *Chamaecypris thyoides* (L.) BSP., in Bradford near the Washington line, presumably along the highway from East Washington to Bradford Center, and at Black Pond and Bagley's Pond in Windsor. He failed to find any stations for this species in the town of Washington, although he and Prof. Fernald made a considerable search for it. Recently, in connection with explora-